

```
' PIC16F819
 '* SET UP BASIC ENVIRONMENT
        DEFINE CHAR_PACING 1000
 ' PORTA.0 = CURRENT SENSE
  PORTA.1 = POT
  PORTA.2 = THERMISTOR
 ' PORTA.3 - VOLTAGE SENSE
 PORTA.4 =
 ' PORTA.5 =
 ' PORTB.0 =
 ' PORTB.1 =
 ' PORTB.2 =
  PORTB.3 = NPN
  PORTB.4 = PNP
 PORTB.5 =
  PORTB.6 =
 PORTB.7 =
                       ENVIRONMENT
. *
        DEFINE CHAR_PACING 1000
*****************
1 *
1 *
                        VARIABLES
1 *
Ν
        VAR
               BYTE
                       BANK<sub>0</sub>
Х
        VAR
                BYTE
Y
        VAR
               BYTE
\mathbf{Z}
        VAR
               BYTE
X2
        VAR
               WORD
                       BANKO
YZ
        VAR
               WORD
MISCF
        VAR
               BYTE
                       BANK0
               BYTE
LCNT
        VAR
VOLTS
        VAR
               WORD

    BANKO

                     BANK0
VOUT
        VAR
               WORD
CURRENT VAR
               WORD
                       BANK0
AMP
        VAR
               WORD
                       BANK0
TEMP
        VAR
               WORD
ALCOP
        VAR
               BYTE
ELOOP
       VAR
               BYTE
PVOLT VAR
               BYTE
                       BANK0
BUCK
      VAR
              BYTE
ssave VAR BYTE BANKO SYSTEM
psave VAR BYTE BANKO SYSTEM
isrl VAR BYTE BANKO SYSTEM
icnt
      VAR BYTE BANKO SYSTEM
wsave VAR BYTE $20 SYSTEM
wsavel VAR BYTE $A0 SYSTEM
```

' ***** LCD PANEL ****

START OF PROGRAM